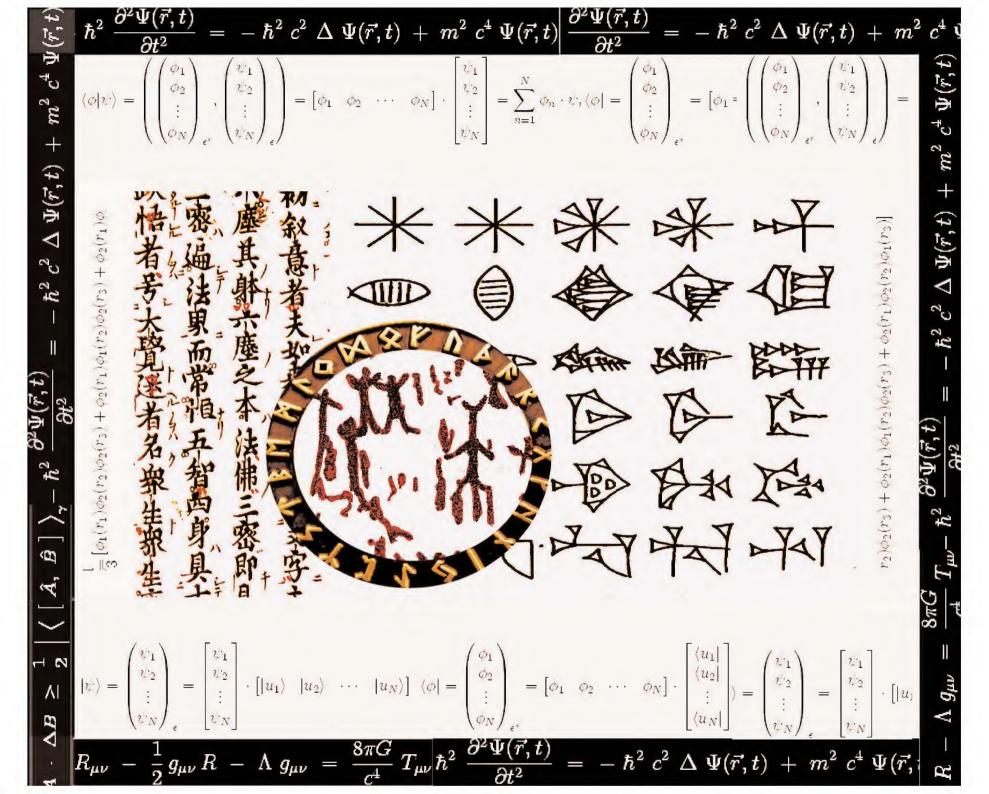


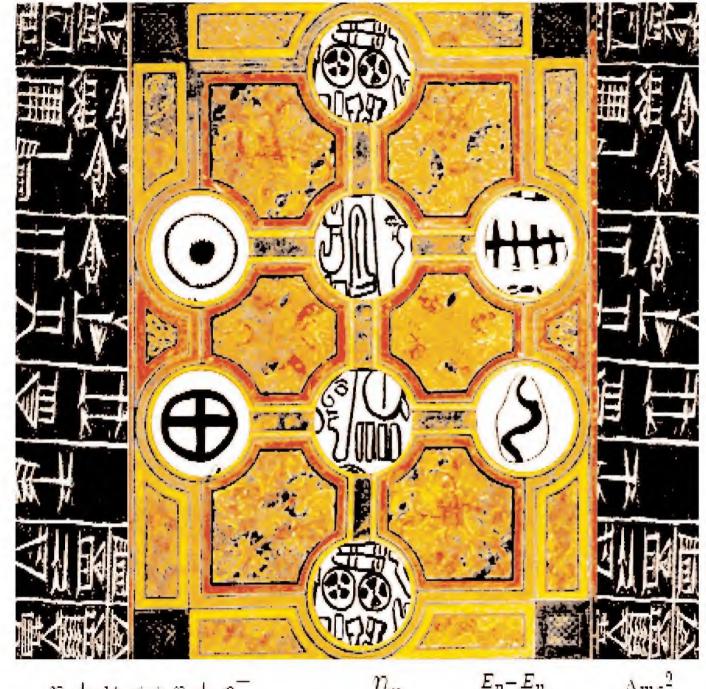
PQP .W(p3] $+ PQPQ + P^2Q^2) = 3 (3P^2Q^2 + 6iPQ - 3/2).f(q,p).[-i.W(f),-i.W(g),.ni.W(f,g)).f(f,g) q^2p^2 / 6(Q^2P^2 + QPQP + QPQP$ Eijk Trace (BA)i.W({f,g}).{f,g} q²p² /6(Q²P² + QPQP + QP²Q + PQ²P + PQPQ + P²Q²).[W(q³),W(p³] et {x³,p³}=3q².3p²- ♠ 2m $0.QP = PQ + i : 9 W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + P^2Q^2) = 3 (3P^2Q^2 + 6iPQ - 1)$ #2 .8186 .1083P2Q2).[W(q3) 3/2).f(q,p). $[-i.W(f),-i.W(g)] := -i.W(\{f,g\}).\{f,g\} q^2p^2 /6(Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + QPQP + Q$ $P^{2}Q^{2}$).[W(q³),W(p³] et $\{x^{3},p^{3}\}=3q^{2}.3p^{2}-0.QP=PQ+i:9W(q^{2}p^{2})=9/6(Q^{2}P^{2}+QPQP+QP^{2}Q+PQ^{2}P)$ -i.W({f,g}). $+ PQPQ + P^2Q^2) = 3 (3P^2Q^2 + 6iPQ - 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + 3/2) \cdot W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + QPQP + QP^2Q + PQ^2P + QPQP + QP^2Q + QQ^2Q + QQ^2$ $P^{2}Q^{2}$)= 3 ($3P^{2}Q^{2}$ +6iPQ8z8-9#566q²p²) = 9/6 ($Q^{2}P^{2}$ + QPQP +.[W(q³),W(p³] et {x³,p³}=3q².3p²-0.QP = 0.00 + 0.0 PQ +i :9 W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ + P^2Q^2)= 3 ($3P^2Q^2$ +6iPQ -3/2). Or $^{\clubsuit}$ $[Q^3, P^3] = 9 P^2Q^2 + 18 i PQ - 6 d 6iPQ - 3/2).f(q,p).[-55t W(p^3] et (x^3,p^3) = 3q^2.3p^2-0.QP = PQ + i : 9 W(q^2p^2)$ 000 $= 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + 9UUYT + i : 9W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + \Delta$ Irace (AE) $PQPQ + P^{2}Q^{2} = 3 (3P^{2}Q^{2} + 6iPQ - 3/2).W(q^{2}p^{2}) = 9/6 (Q^{2}P^{2} + QPQP + QP^{2}Q + PQ^{2}P + PQPQ + P^{2}Q^{2}) = 0$ Or [Q3, P3]= 9 P2Q2 +18 i PQ -6 d =(V+v) t = Vt +vt 1/299.792.458 3P2Q2 +6iPQ -3/2).3P2Q2 +6iPQ - dt J $W(q^2p^2)$ 3/2). $3P^2Q^2 + 6iPQ - 3/2$). q^3), $W(p^3] et {x^3, p^3} = 3q^2.3p^2 - 0.QP = PQ +i :9 <math>W(q^2p^2) = 9/6$ ($Q^2P^2 + QPQP + +$ i.W(g)] Q²P² + Papa 3P2Q2 PRG $\begin{array}{l} QP^2Q \ + \ PQ^2P \ + \ PQPQ \ + \ P^2Q^2) = \ 3 \ (\ 3P^2Q^2 \ + 6iPQ \ - 88iPQ \ - 3/2).3P^2Q^2 \ + 6iPQ \ - 3/2).3P^2Q^2 \ - 3/2).3P^2Q^2$ QP2Q Q2P2 3 0 C $i.W(f),-i.W(g)] := -i.W(\{f,g\}),\{f,g\} \ q^2p^2 / 6(\ Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ +^3] \ et \ \{x^3,p^3\} = 3q^2.3p^2-0.QP^3 + QP^2Q + QQ^2Q +$ Pa 2 P2Q2)= -3/2).f(q,p).[-(H H 12 $= PQ + i : 9 W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + PQ^2P + RPQi.W(\{f,g\}).\{f,g\} q^2p^2/6(Q^2P^2 + QPQP + 458)$ QPQP QPQP $+ P^{2}Q^{2}$) = 3 ($3P^{2}Q^{2} + 6iPQ - 3/2$).f(q,p).[-i,W(f),-i,W(g)] := $-i,W(\{f,g\})$. $\{f,g\}$ $q^{2}p^{2}$. $f(Q^{2}P^{2} + QPQP + QP^{2}Q + PQ^{2}P)$ 0 $+ PQPQ + P^2Q^2$).[W(q³),W(p³] et {x³,p³}=3q².3p²-0.QP = PQ +i :9 W(q²p²) = 9/6 (Q²P² + QPQP + QP²Q + $PQ^2P + PQPQ + P^2Q^2) = 3 \left(3P^2Q^2 + 6iPQ - 3/2 \right) \cdot f(q,p) \cdot [-i.W(f),-i.W(g)] := -i.W(\{f,g\}) \cdot \{f,g\} \cdot q^2p^2 \cdot f(Q^2P^2 + QPQP^2) \cdot f(g^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2P^2 + Q^2P^2) \cdot f(g^2P^2 + Q^2P^2 + Q^2 + Q^2P^2 + Q^2P^2 +$ 1= $+ QP^2Q + PQ^2P + PQPQ + P^2Q^2$.[W(q³),W(p³] et $\{x^3, p^3\}=3q^2.3p^2-0.QP = PQ + i : 9 W(q^2p^2) = 9/6 (Q^2P^2 + PQ^2P^2)$ QPQP Q2p2 3p2-0.QP $QPQP + QP^2Q + PQ^2P + PQPQ + P^2Q^2 = 3 (3P^2Q^2 + 6iPQ - 3/2).W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q + QP^$ 020 $PQ^{2}P + PQPQ + P^{2}Q^{2}) = 3 (3P^{2}Q^{2} + 6iPQ8z8 - 9#566PQPQ + P^{2}Q^{2}).[W(q^{3}),W(p^{3})] et {x^{3},p^{3}} = 3q^{2}.3p^{2}-0.QP = 61$ $PQ + i : 9 W(q^2p^2) = 9/6 (Q^2P^2 + QPQP + QP^2Q 6ttr38zz9000f(q,p).[-i,W(f),-i,W(g)] := -i.W(f,g).(f,g) Q^2P^2 / 6(-1) = -i.W(f,g) Q^2 / 6(-1) = -i.W(f,g) Q^2 / 6(-1) = -i.W(f,g) Q^2 / 6(-1) = -$ 2Q2).[W(q3),W(QP2 Q2P2 + QPQP + QP2Q + PQ2P + PQPQ + P2Q2).[W(q3),W(p3] et UTT66+ QP2Q + PQ2P + PQPQ + Q2P($P^{2}Q^{2}).[W(q^{3}),W(p^{3}] \text{ et } \{x^{3},p^{3}\}=3q^{2}.3p^{2}-0.QP = PQx^{3},p^{3}\}=3q^{2}.3p^{2}-0.QP = PQ +-i.W(\{f,g\}).\{f,g\} \ q^{2}p^{2} \ /6(Q^{2}P^{2}+1.Q^{2}P^{2})$ Q²P Or $[Q^3, P^3] = 9 P^2Q^2 + 18 i PQ - 6 d = (V+v) t = Vt + vt 1/299.792.458 3P^2Q^2 + 6iPQ - 3/2).3P^2Q^2 + 6iPQ - 3/2 +$ 4 + O 3/2). $3P^2Q^2 + 6iPQ - 3/2$). 4^3), 4^3 0 = 4^3 0, 4^3 2 = 4 P^2Q^2 $PQ^{2}P + PQPQ + P^{2}Q^{2}) = 3 (3P^{2}Q^{2} + 6iPQ - 88PQ + i : 9W(q^{2}p^{2}) = 9/6 (Q^{2}P^{2} + QPQP + QP^{2}Q + PQ^{2}P + PQPQ - QP^{2}Q + PQ^{2}P + QPQP + QP^{2}Q + PQ^{2}P + QPQP + QP^{2}Q + QP^{2$ $+ P^2Q^2$)= 3 ($3P^2Q^2 + 6iPQ - 3/2$). $3P^2Q^2 + 6iPQ - 3/2$).f(q,p) = -i.W(f,-i.W(g)) = -i.W(f(g,g)).f(g) = -i.W(f(g,g)). QP W(f). ,p3 $QPQP + QP^2Q + PQ^2P + PQPQ + P^2Q^2).[W(q^3),W(p^3] \text{ et } \{x^3,p^3\} = 3q^2.3p^2-0.QP = PQ + i:9 \ W(q^2p^2) = 9/6 \ (Q^2P^2) = 9/6 \ (Q^2$ Q2P

+ QPQP + QP2Q0005577890 +6iPQ -3/2).Or [Q3, P3]= 9 P2Q2 +18 i PQ -6 d =(V+v) t = Vt +vt 1/299.792.458 € $[W(q^3),W(p^3] \text{ et } \{x^3,p^3\} = 3q^2.3p^2-0.QP = PQ + i : 9 \ W(q^2p^2) = 9/6 \ (\ Q^2P^2 + f(q,p).[-i.W(f),-i.W(g)] : = -i.W(\{f,g\}).\{f,g\}, = -i.W(f,g) + i.W(g) + i.W(g$

 $f(q,p)mmmm99.[-i.W(f),-i.W(g)] := -i.W(\{f,g\}).\{f,g\} q^2p^2 /6(Q^2P^2 + QPQP + QP^2Q + PQ^2P + PQPQ +$ $P^{2}Q^{2}$.[W(q³),W(p³] et {x³,p³}=3q².3p²-0.QP = PQ +i :9 W(q²p²) = 9/6 (Q²P² + QPQP + QP²Q + PQ²P + QPQP + QPQP

+ PQPQ + P2Q2)= 3 (3P2Q2 +6iPQ -3/2).f(q,p).[-i.W(f),-i.W(g),,ni.W({f,g}).{f,g} q2p2/6(Q2P2 + QPQP + QPQP +



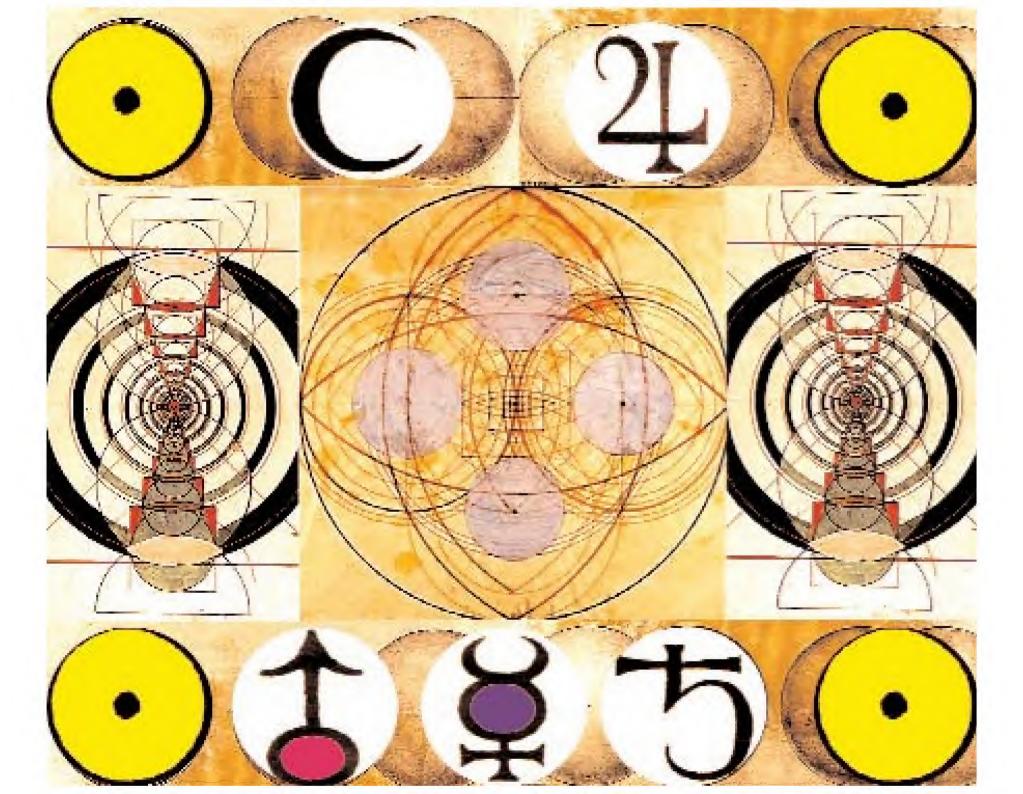


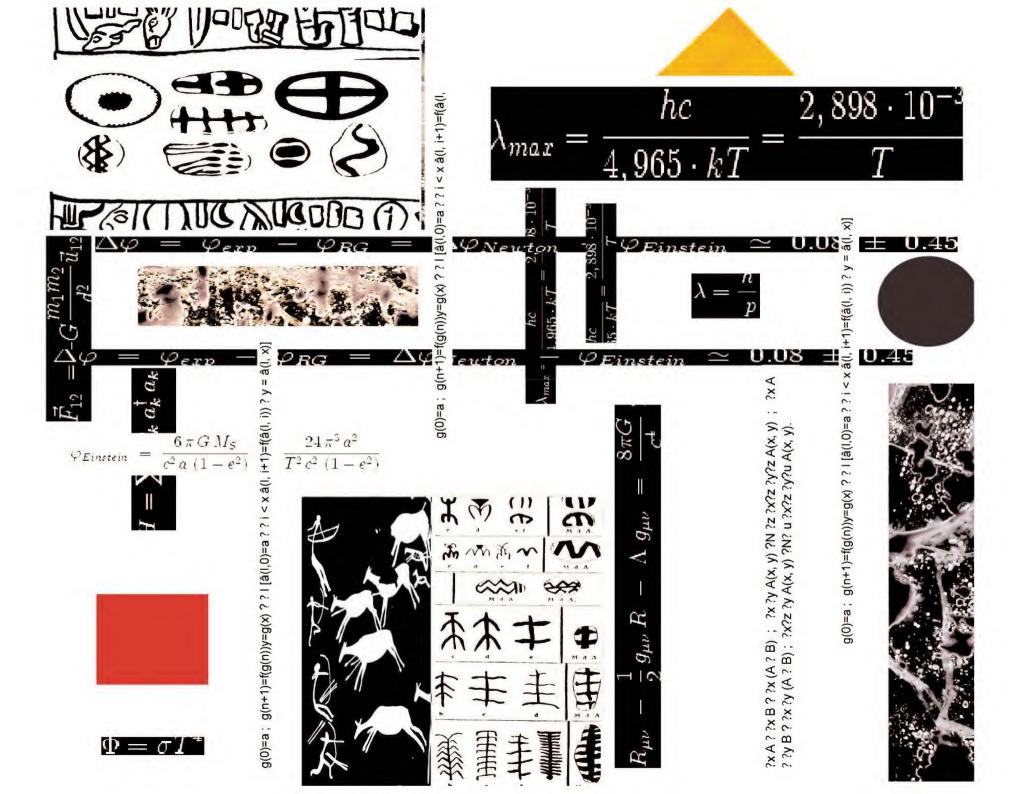
 $n + \nu_{\epsilon} \leftrightarrow p + e^{-}$ $n + e^{+} \leftrightarrow p + \nu_{\epsilon}$ $n \leftrightarrow p + e^{-} + \overline{\nu_{\epsilon}}$

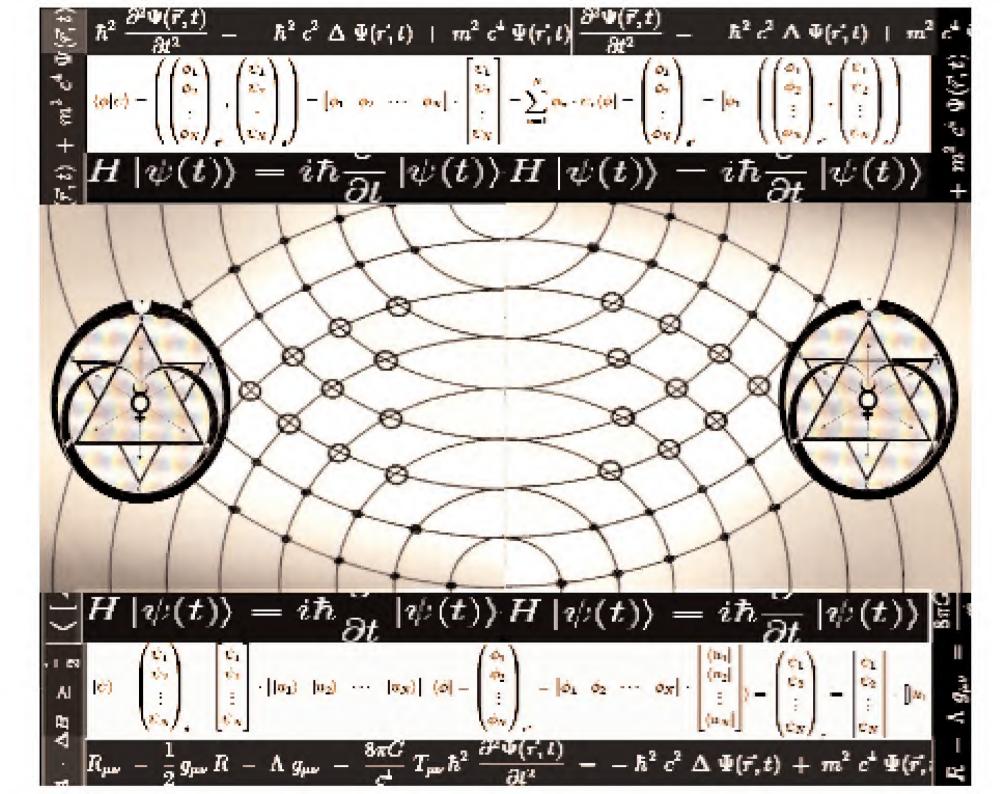
 $\frac{n_p}{n_n} = e^{-\frac{E_p - E_n}{kT}} = e^{-\frac{\Delta mc^2}{kT}}$

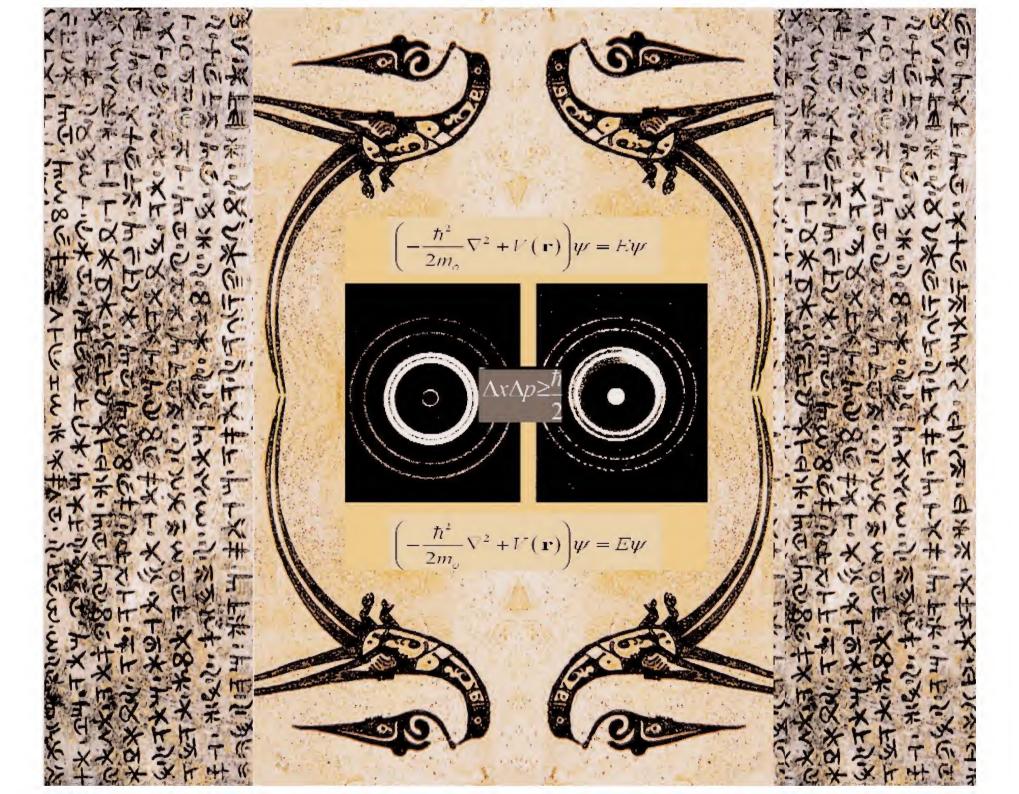
 $p + n - D + \gamma$ $(\gamma : pk)$ $D + n - {}^{3}H + \gamma$ $D + p - {}^{3}He + \gamma$ $D + D - ^3H + p$ $D + D - ^3He + n$ $D + D - {}^{4}He + \gamma$ 3 H + p - 4 He + γ 3 He + n - 3 H + p 3 He + n - 4 He + γ ${}^{3}\text{H} + \text{D} - {}^{4}\text{He} + \text{n}$ ${}^{3}\text{He} + D - {}^{4}\text{He} + p$ ${}^{3}\text{He} + {}^{3}\text{He} - {}^{4}\text{He} + 2p$ 4 He + D - 6 Li + γ ${}^{4}\text{He} + {}^{3}\text{H} - {}^{7}\text{Li} + \gamma$ ${}^{4}\text{He} + {}^{3}\text{He} - {}^{7}\text{Be} + \gamma$ 6 Li + n - 7 Li + γ $^{\circ}$ Li + p - 7 Be + γ ⁷Li + p - ⁴He + γ 7 Be + n - 7 Li + p 7 Be + e⁻ - 7 Li + γ

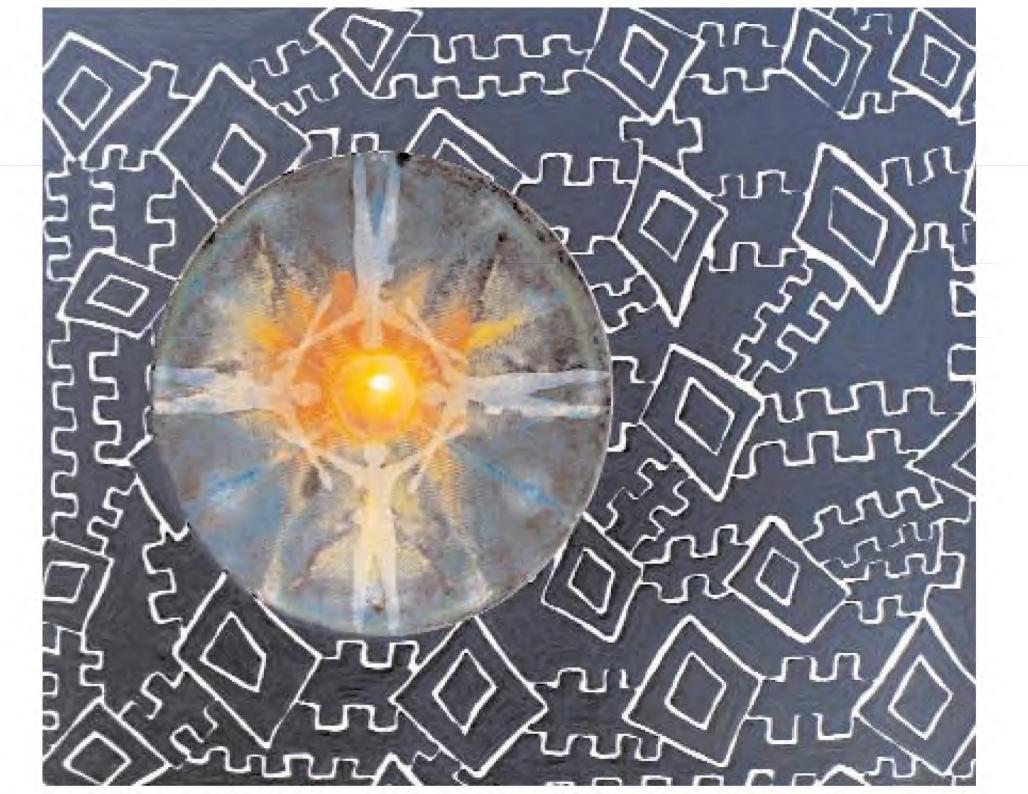


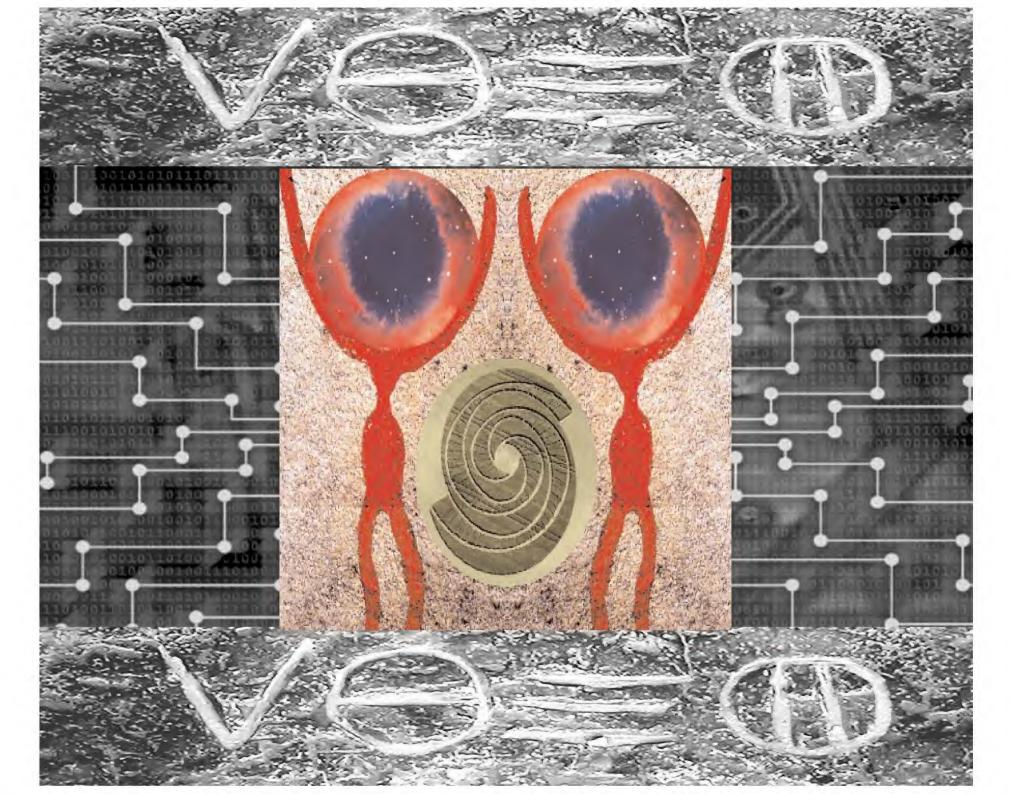


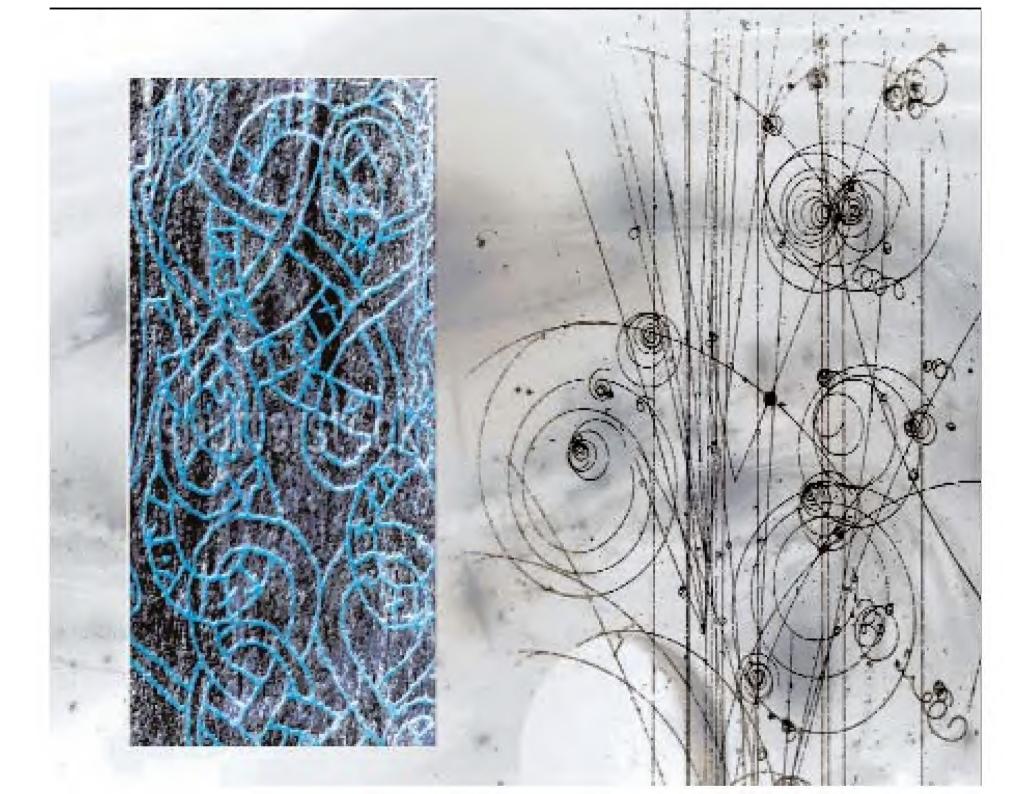


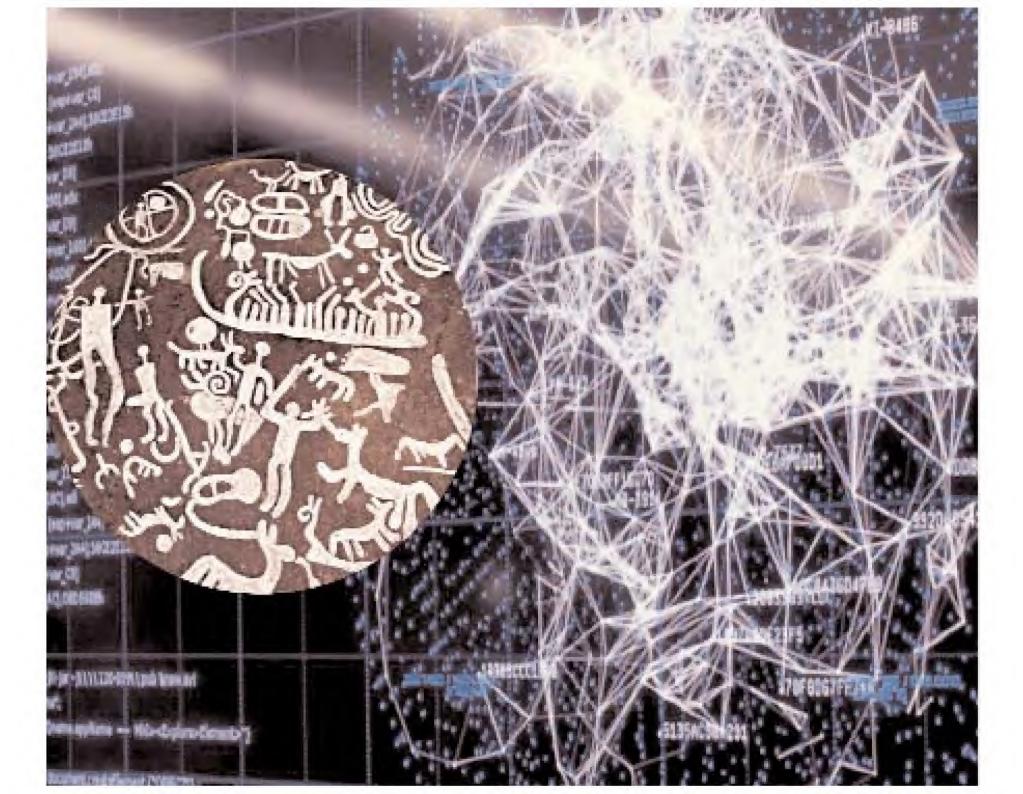




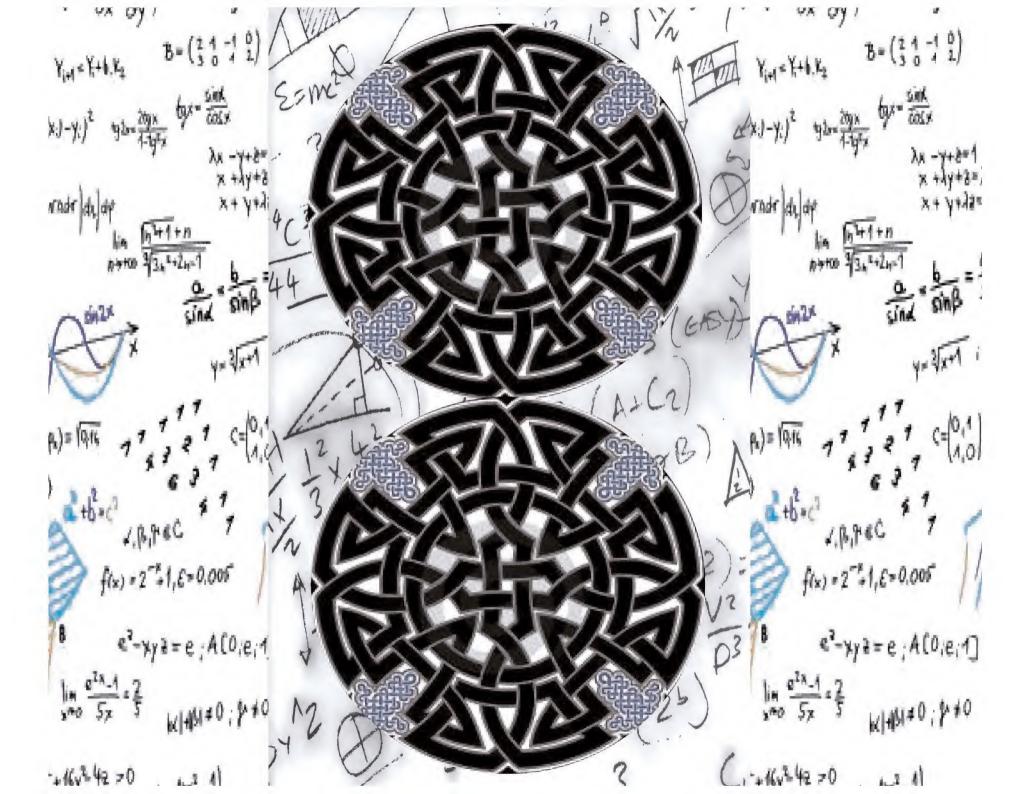


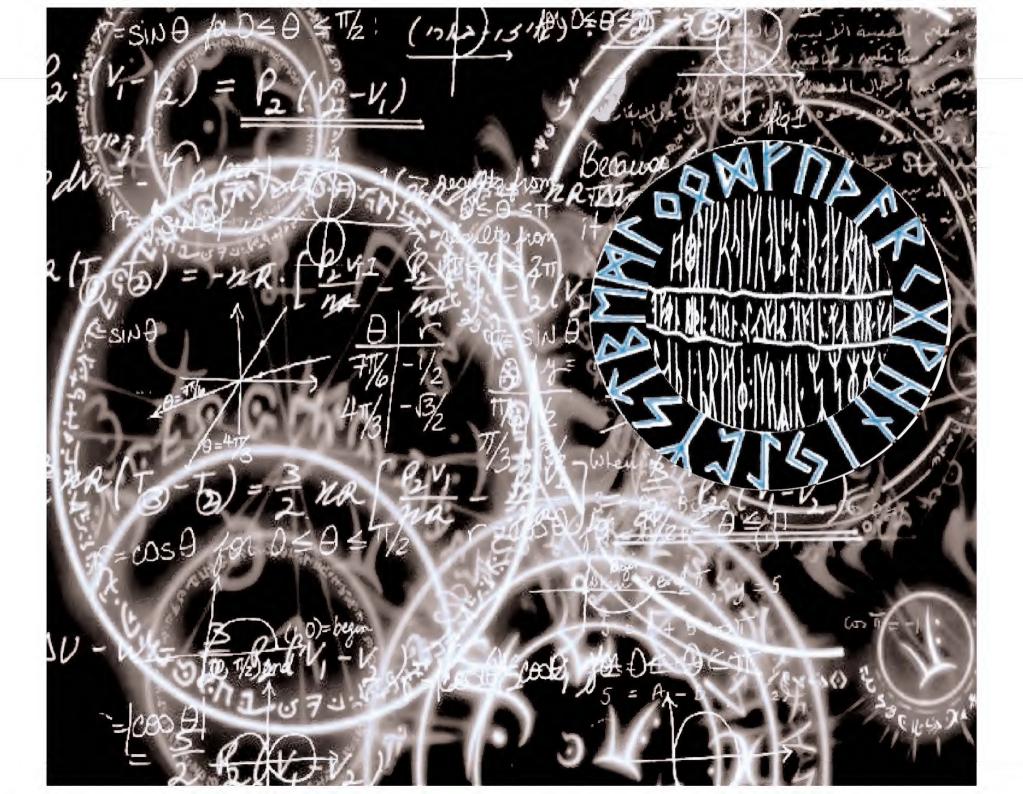


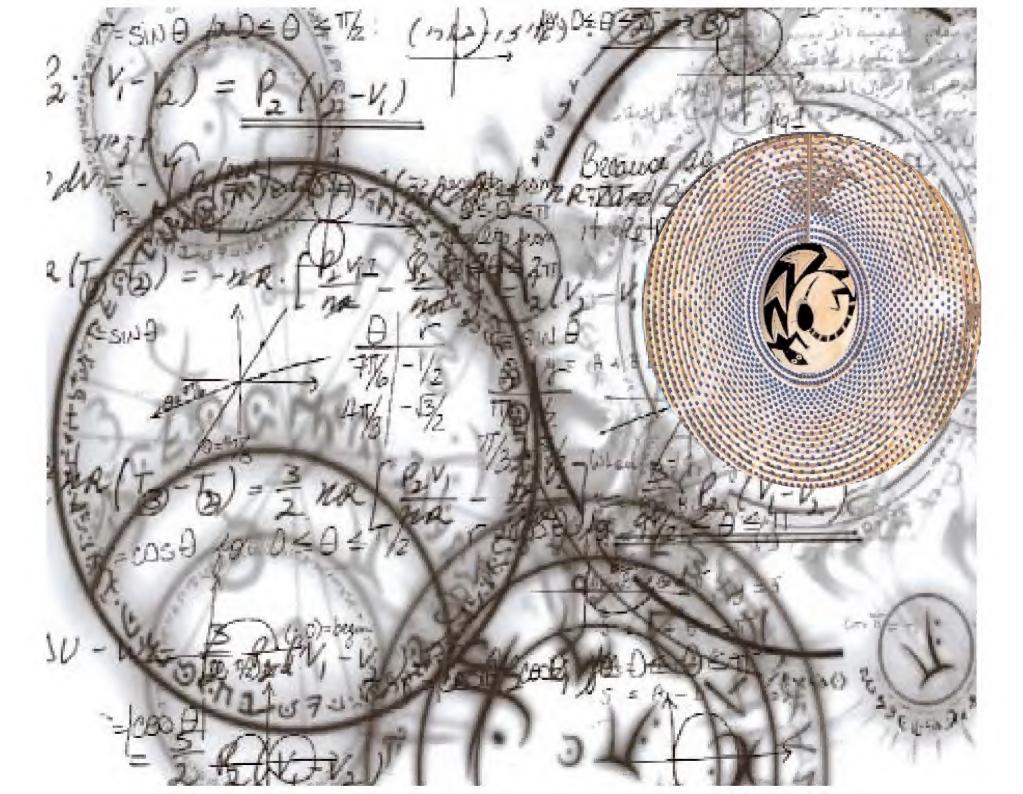


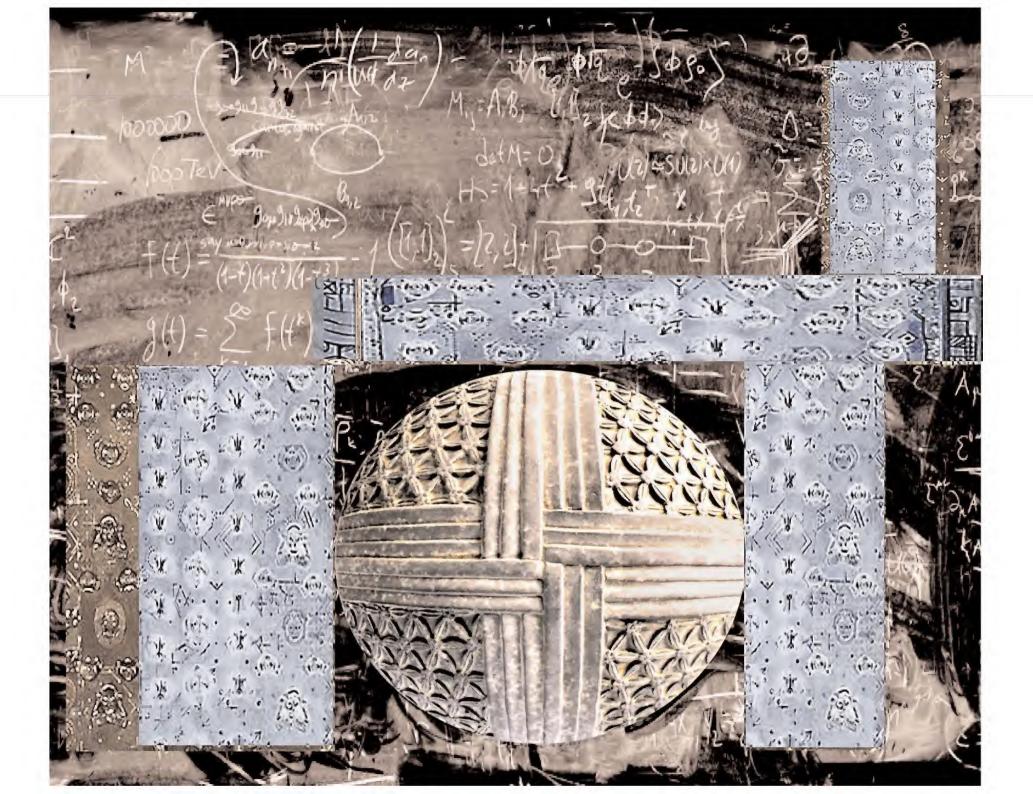


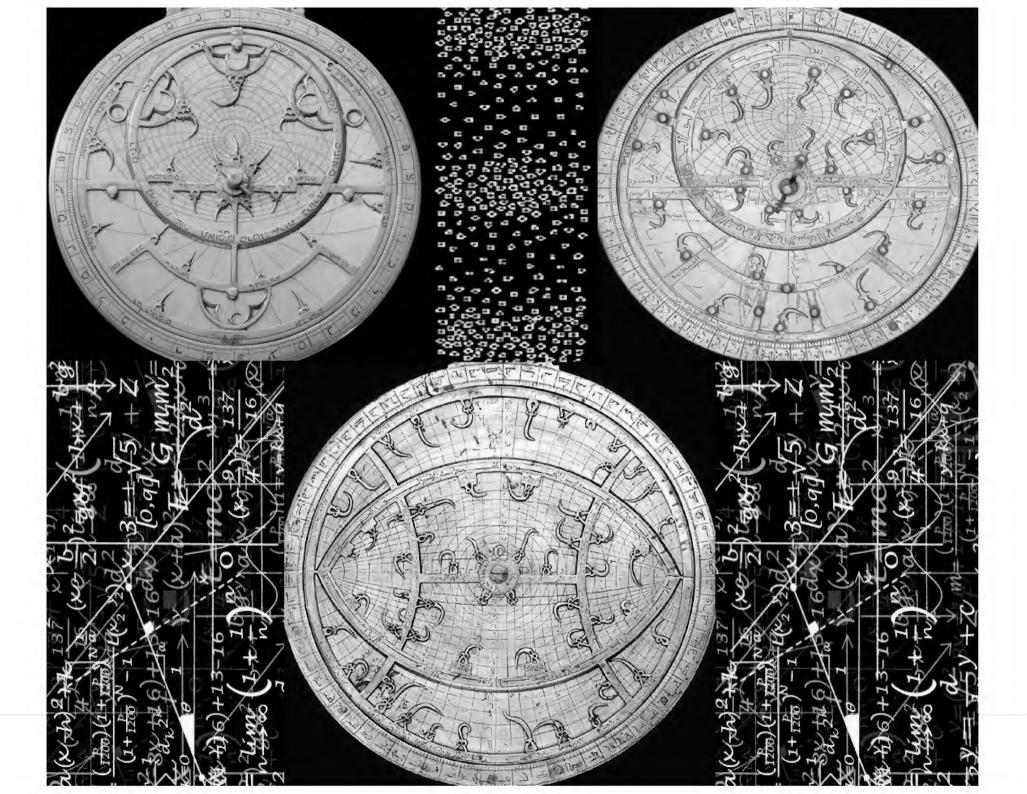


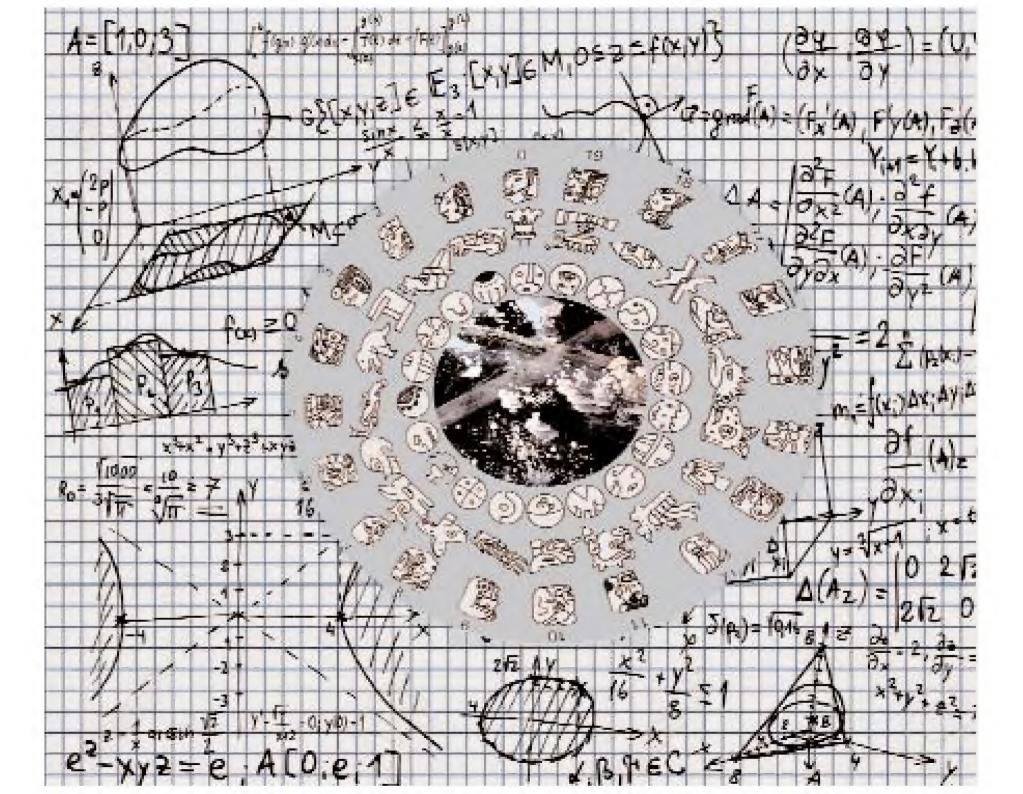


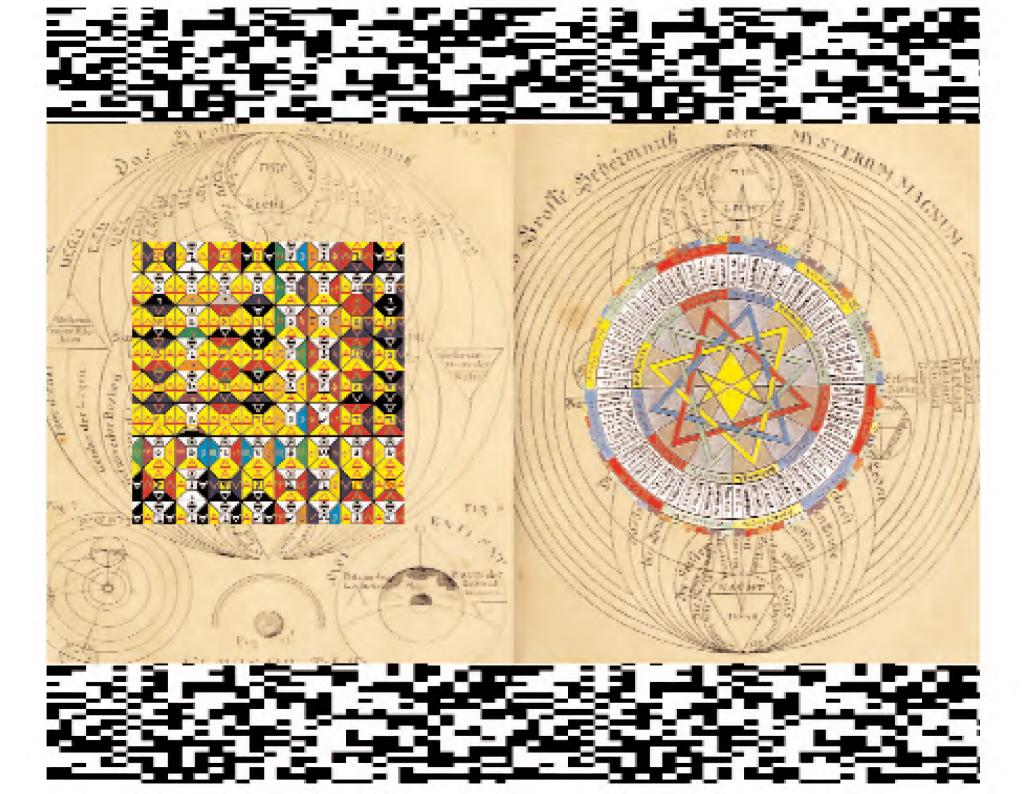


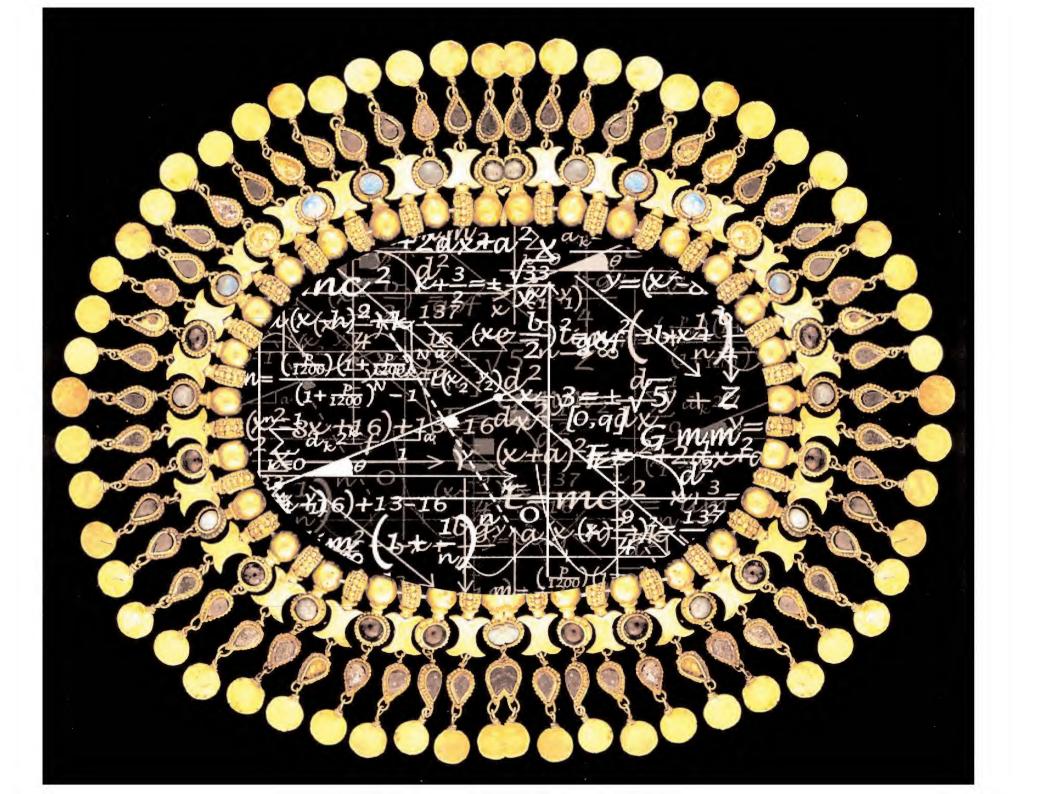


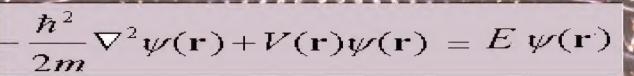












$$\left(\frac{-\hbar^2}{2m}\nabla^2 + V\right)\psi = i\hbar\frac{\partial\psi}{\partial t}$$

$$\Delta x_i \Delta p_i \ge \frac{\hbar}{2}$$

$$\left(\beta mc^2 + \sum_{k=1}^3 \alpha_k p_k c\right) \psi(\mathbf{x}, t) = i\hbar \frac{\partial \psi(\mathbf{x}, t)}{\partial t}$$

